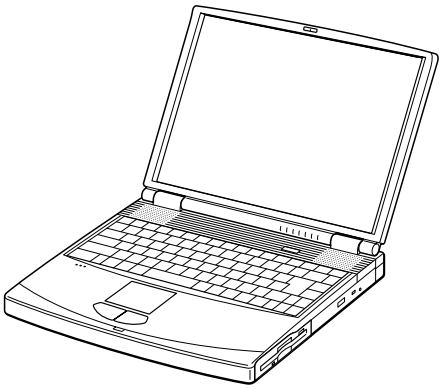
PCG-FXA32/FXA33/FXA35/D/FXA36

SERVICE MANUAL

For American Area
US Model
Canadian Model

Ver 2-2002A

Revision History



Illust : PCG-FXA36

i™ S400

VAIO

Lineup : PCG-FXA32
PCG-FXA33
PCG-FXA35/D
PCG-FXA36

Confidential

NOTEBOOK COMPUTER

SONY®

9-874-453-02

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Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate.
Dispose of used battery promptly.
Keep away from children.

CAUTION: Changing the back up battery.
- Overcharging, short circuiting, reverse charging, multilation or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify areas requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the ⚠ mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

- The temperature of the soldering-iron tip should be about 270C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

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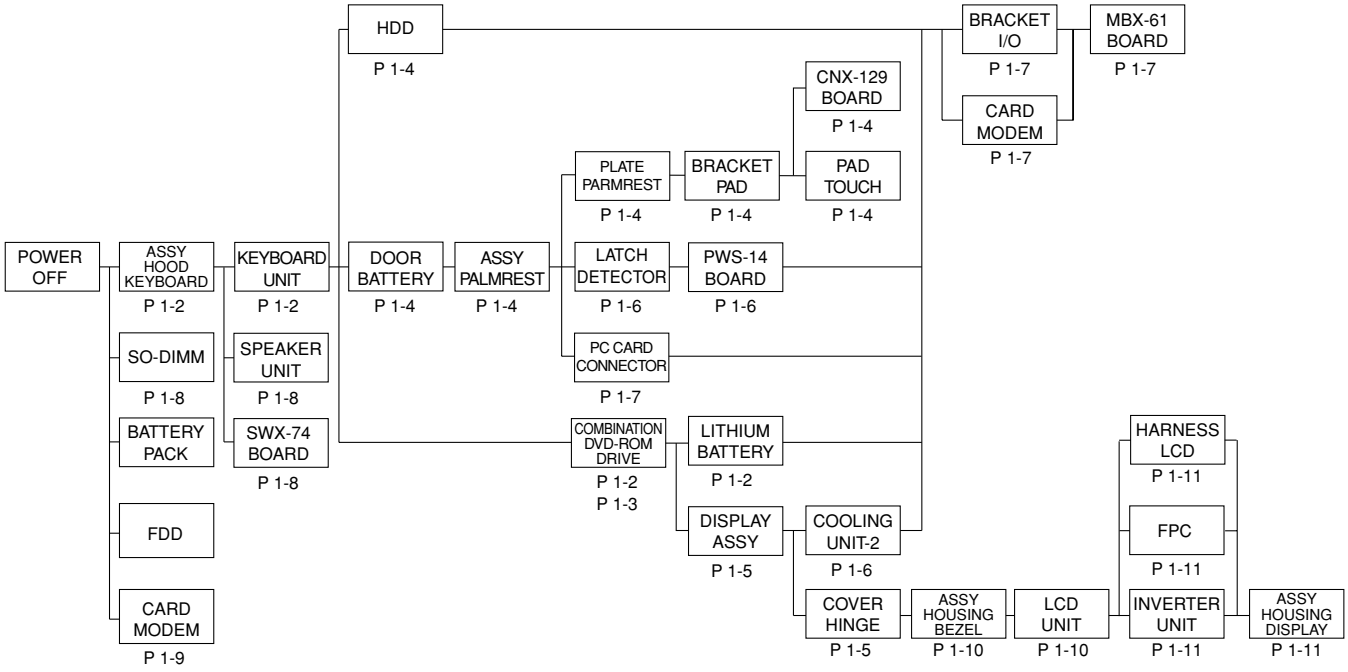
History of the changes is shown as the "Revision History" at the end of this data.

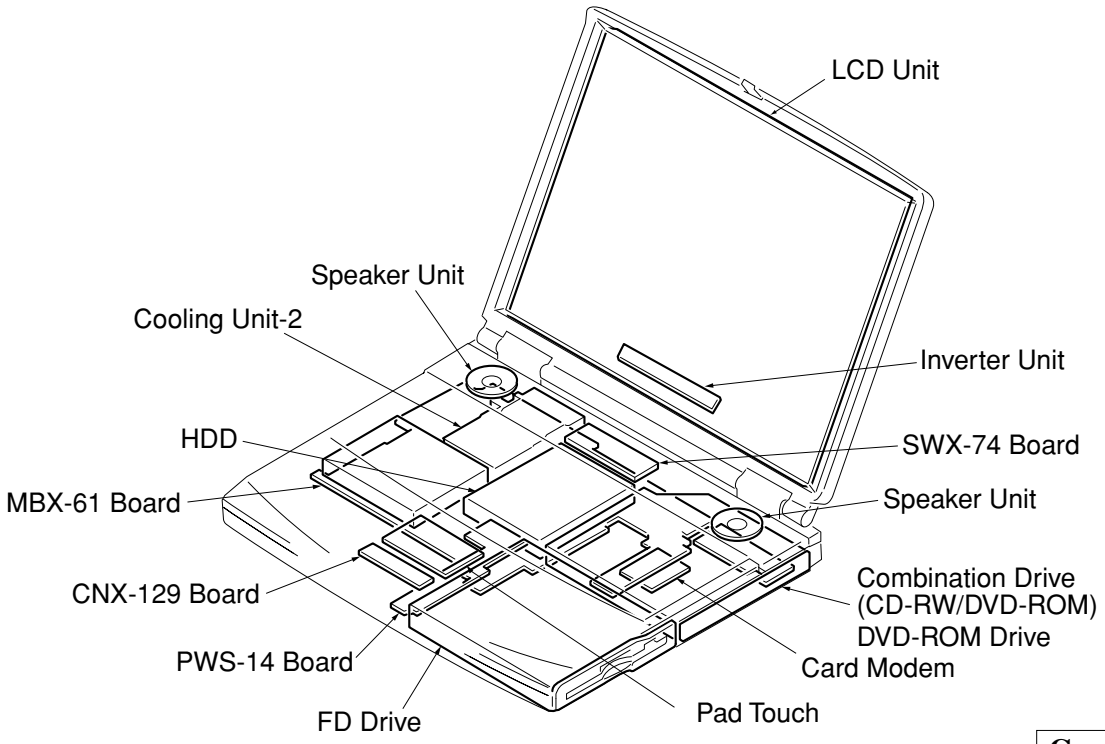
1-1. Flowchart



• P XX means pages that appears in this manual.

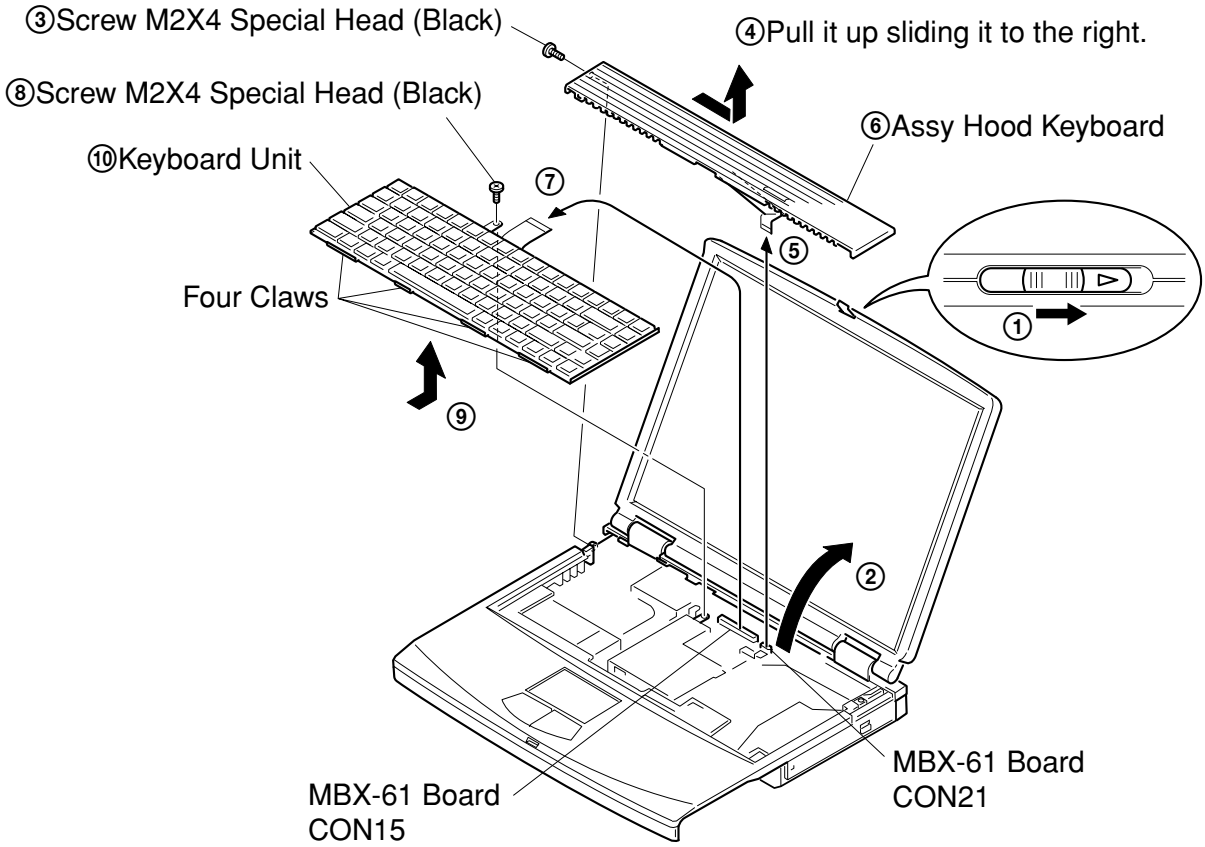
• Remember that hard disk drives are easily damaged by vibration. Always handle with care.

1-2. Main Electrical Parts Location Diagram

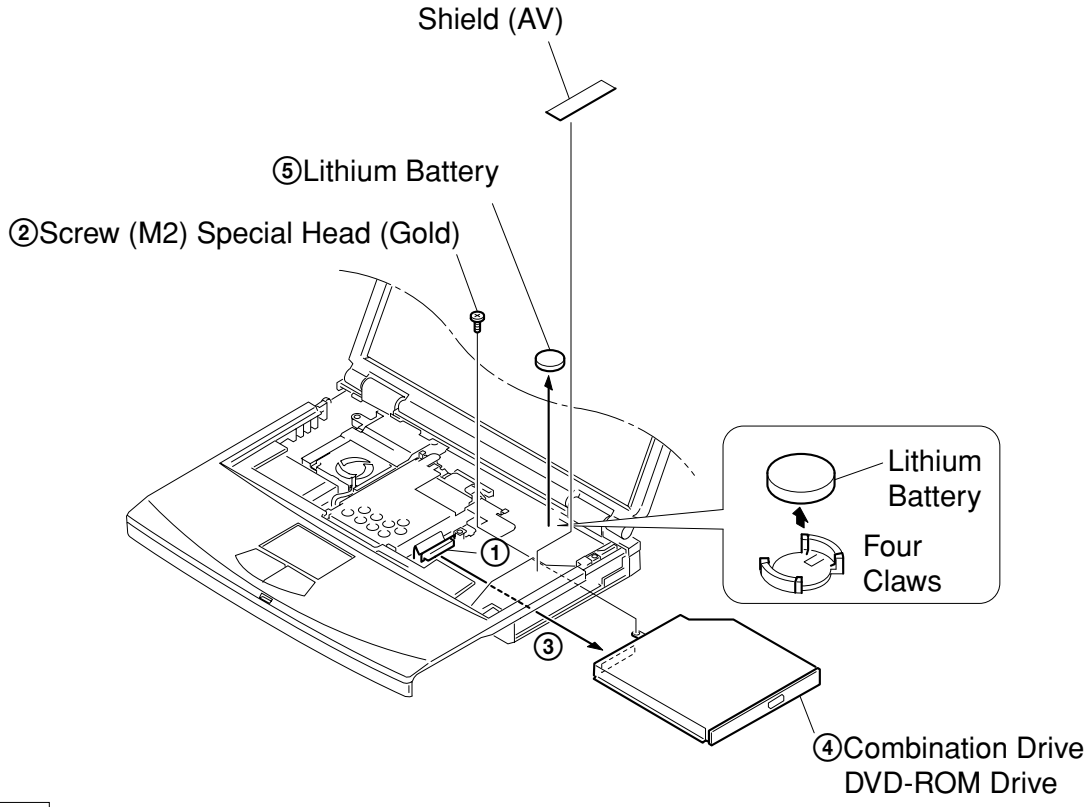


1-3.Removal

1. Assy Hood Keyboard, Keyboard Unit

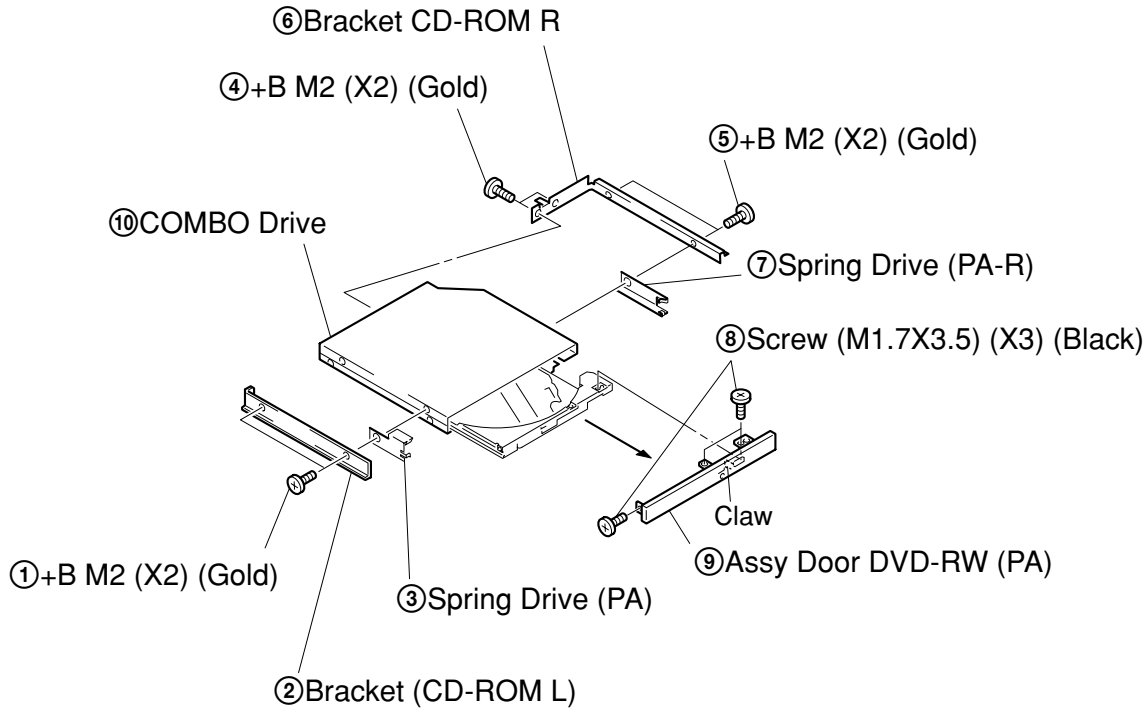


2. Lithium Battery, Combination Drive, DVD-ROM Drive

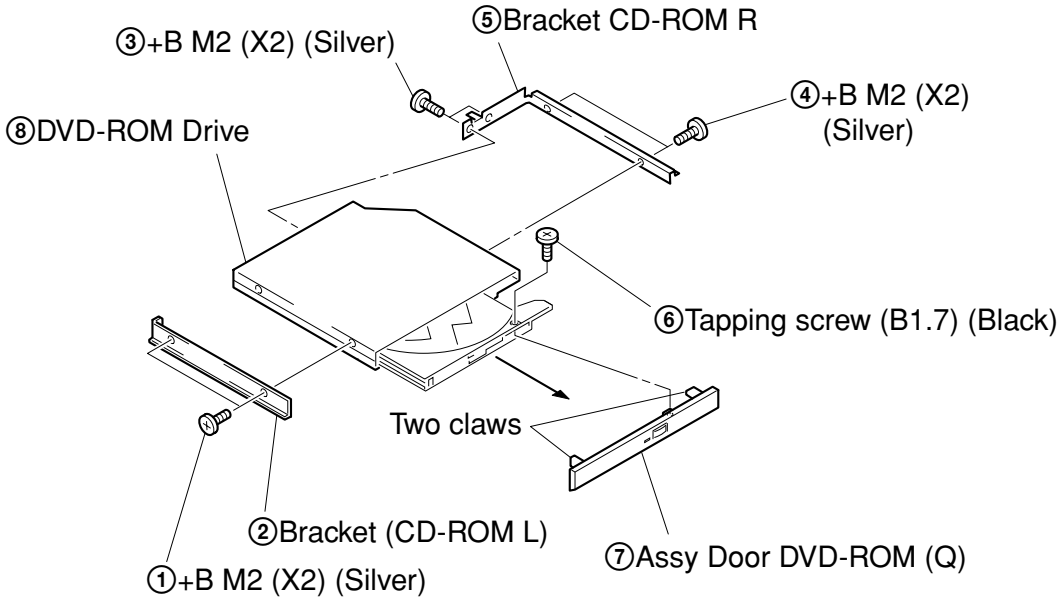


3. Combination Drive, DVD-ROM Drive

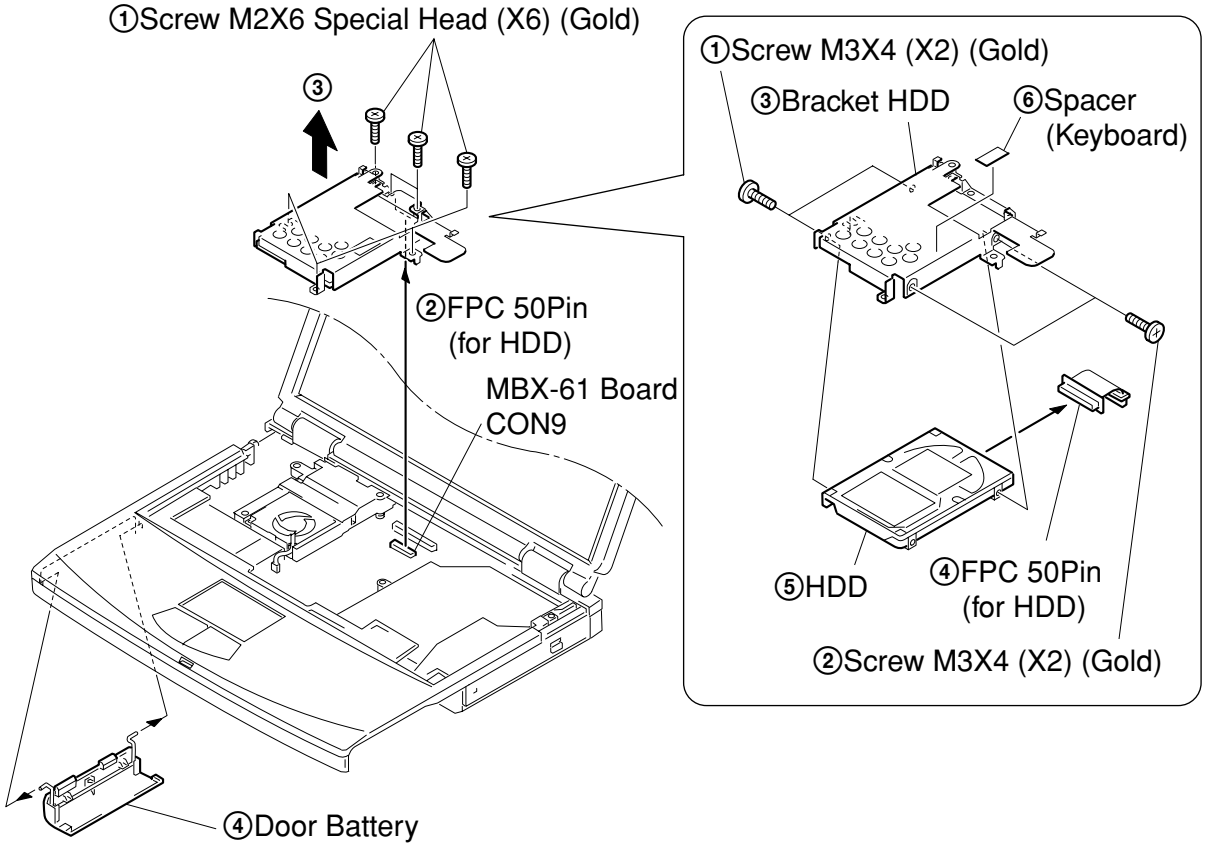
1. FXA33/FXA35/D/FXA36 Model



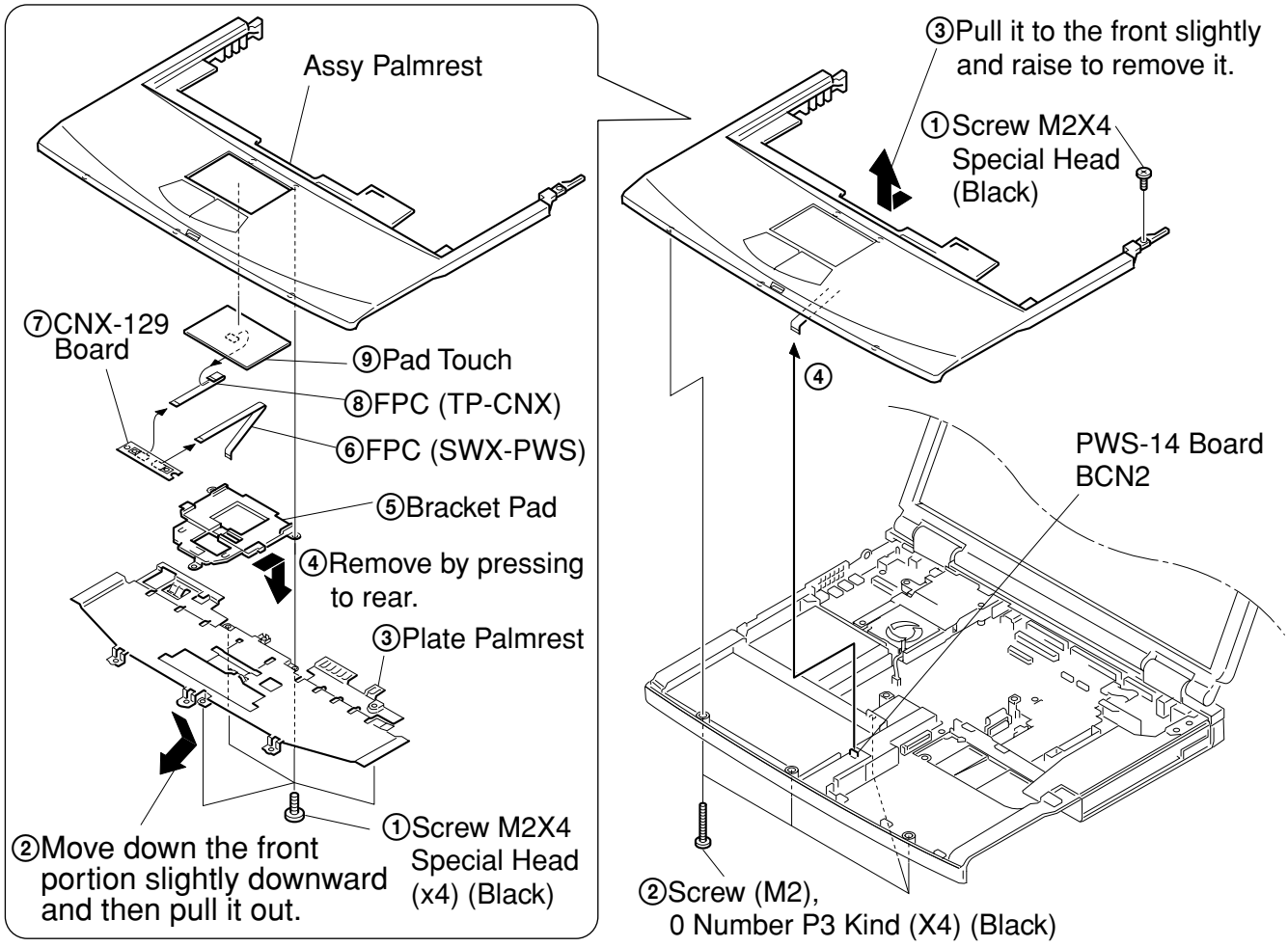
2. FXA32 Model



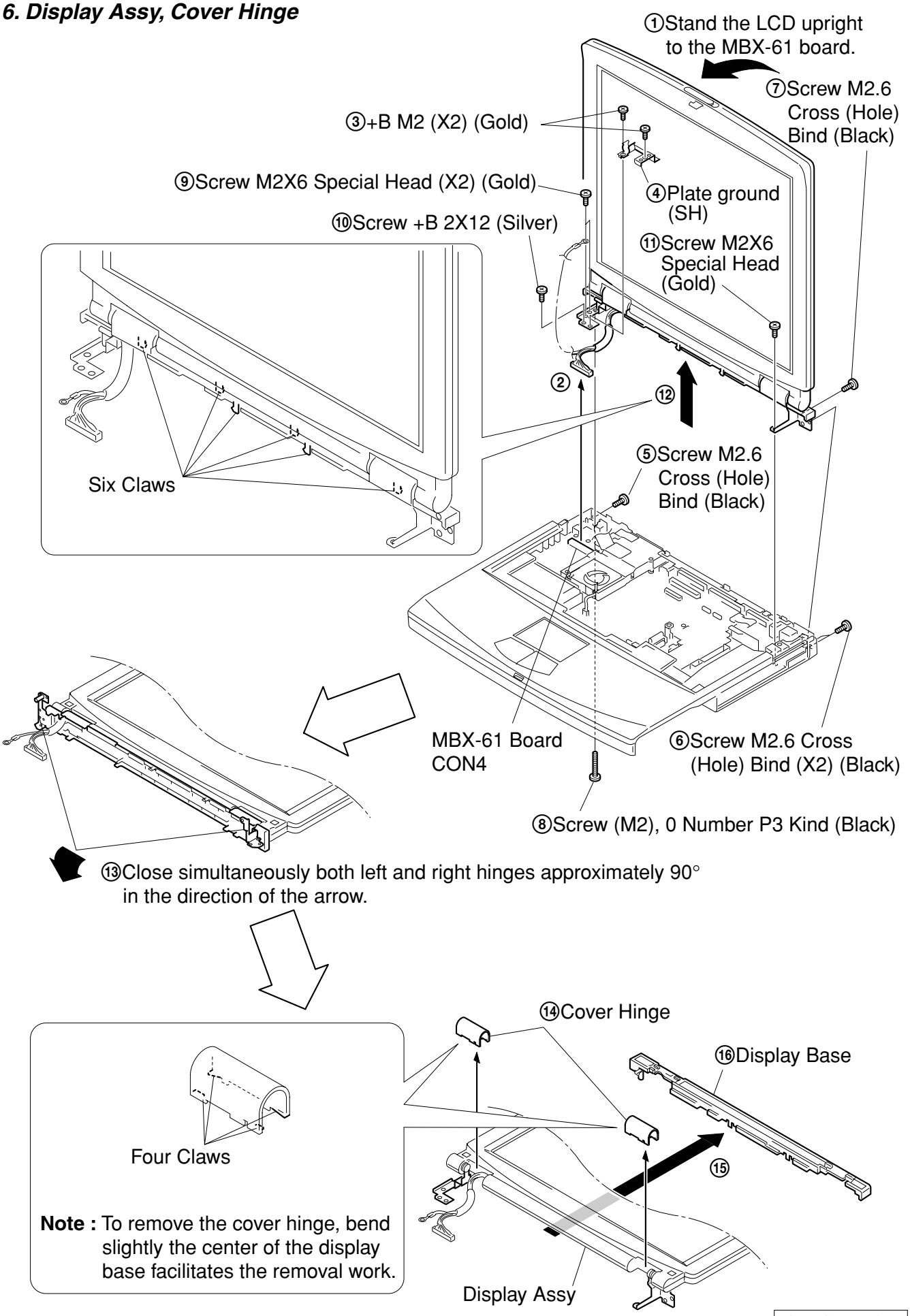
4. HDD, Door Battery



5. Assy Palmrest, Pad Touch, CNX-129 Board, Plate Palmrest, Bracket Pad

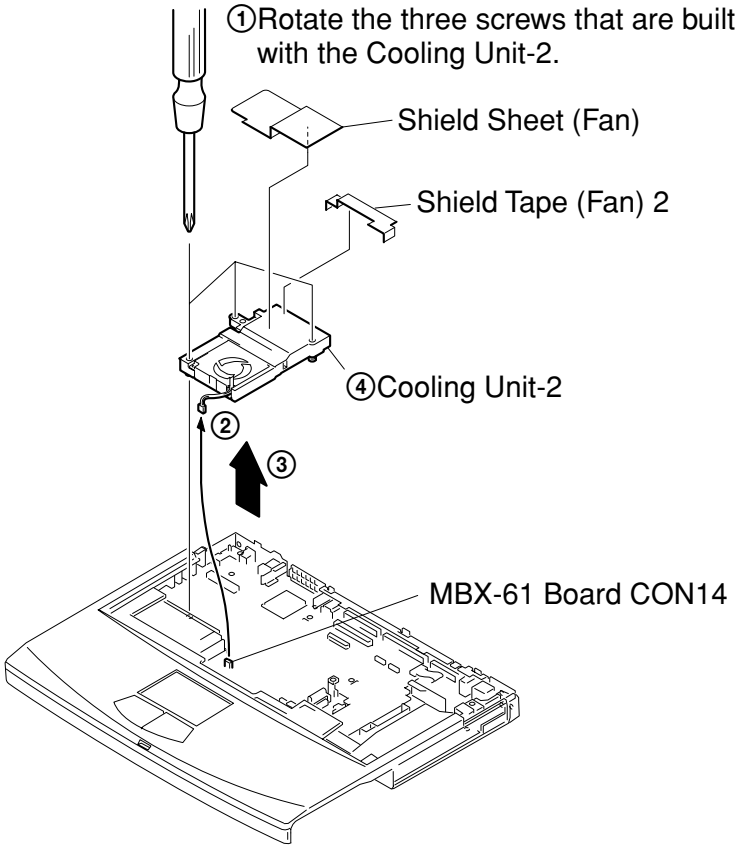


6. Display Assy, Cover Hinge

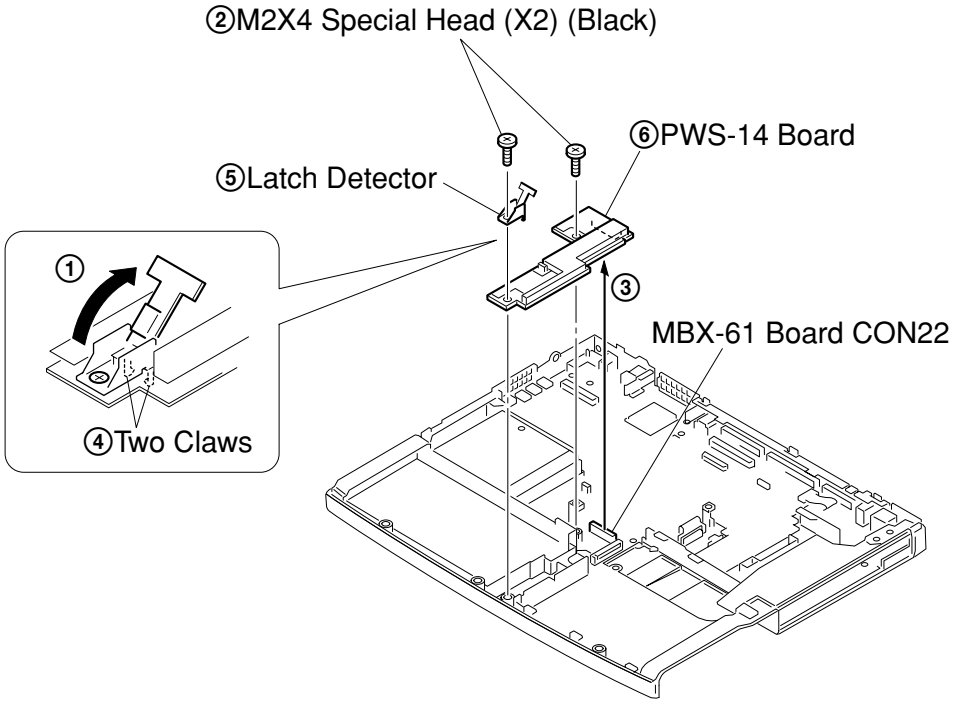

①Stand the LCD upright to the MBX-61 board.
⑦Screw M2.6 Cross (Hole) Bind (Black)
③+B M2 (X2) (Gold)
⑨Screw M2X6 Special Head (X2) (Gold)
④Plate ground (SH)
⑩Screw +B 2X12 (Silver)
⑪Screw M2X6 Special Head (Gold)
②
⑫
⑤Screw M2.6 Cross (Hole) Bind (Black)
Six Claws
MBX-61 Board CON4
⑥Screw M2.6 Cross (Hole) Bind (X2) (Black)
⑧Screw (M2), 0 Number P3 Kind (Black)
⑬Close simultaneously both left and right hinges approximately 90° in the direction of the arrow.
⑭Cover Hinge
⑯Display Base
⑮
Four Claws
Display Assy

Note : To remove the cover hinge, bend slightly the center of the display base facilitates the removal work.

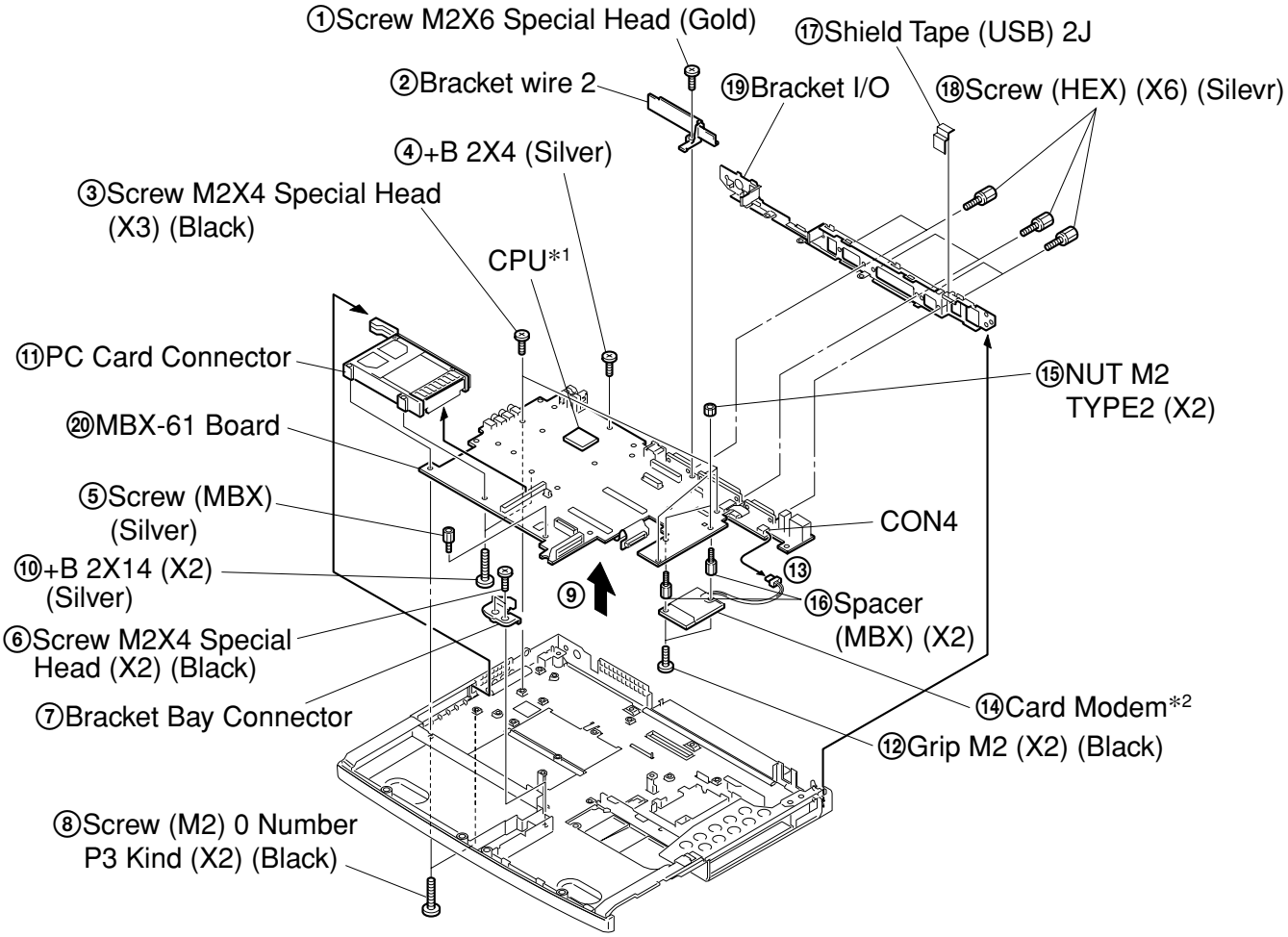
7. Cooling Unit-2



8. PWS-14 Board, Latch Detector



9. PC Card Connector, Card Modem, MBX-61 Board, Bracket I/O

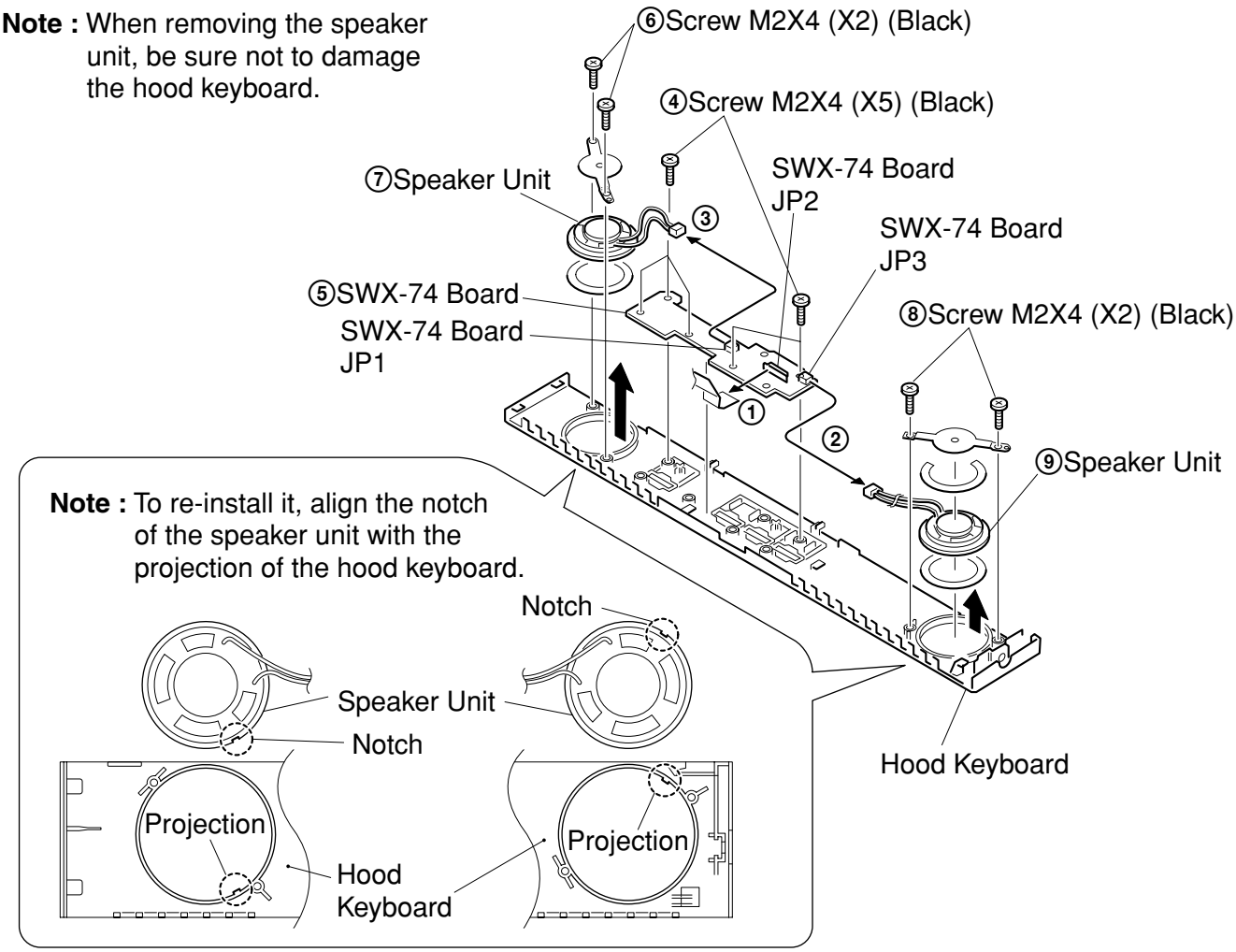


∗1 When removing the CPU, refer to " 1-4. Replacing the CPU ".

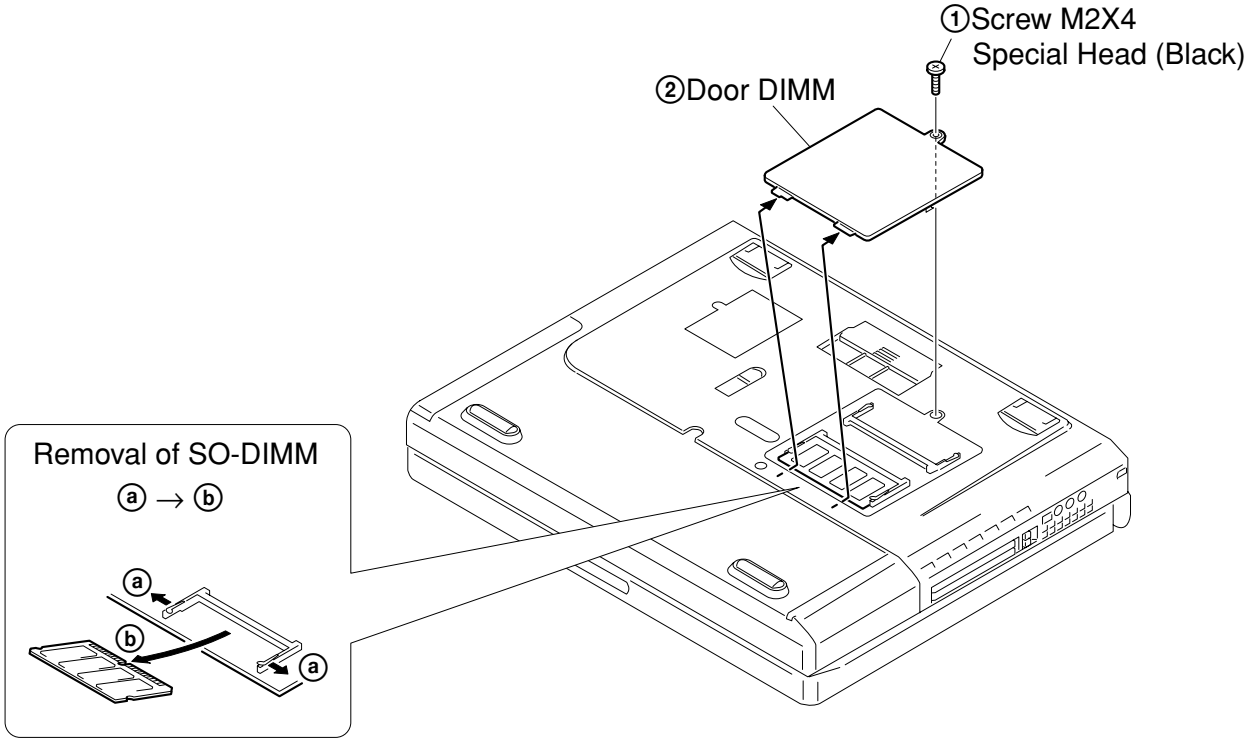
∗2 Card Modem can be removed from the bottom.
Refer to the subsequent paragraph " 10. Card Modem " for more details.

10. Speaker Unit, SWX-74 Board

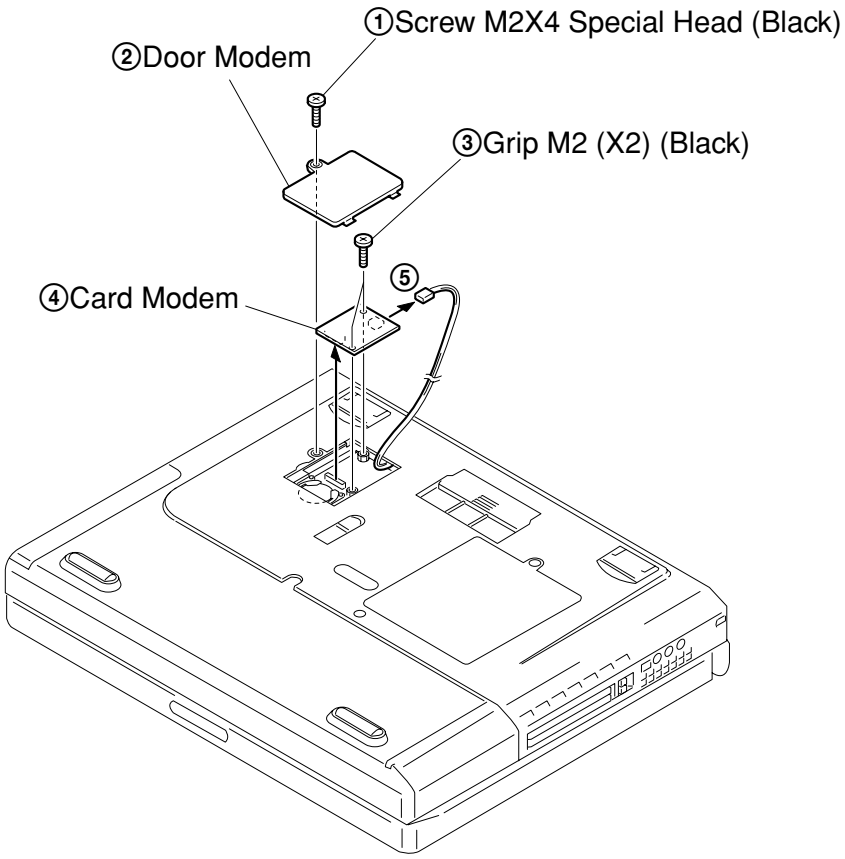
Note : When removing the speaker unit, be sure not to damage the hood keyboard.



11. SO-DIMM

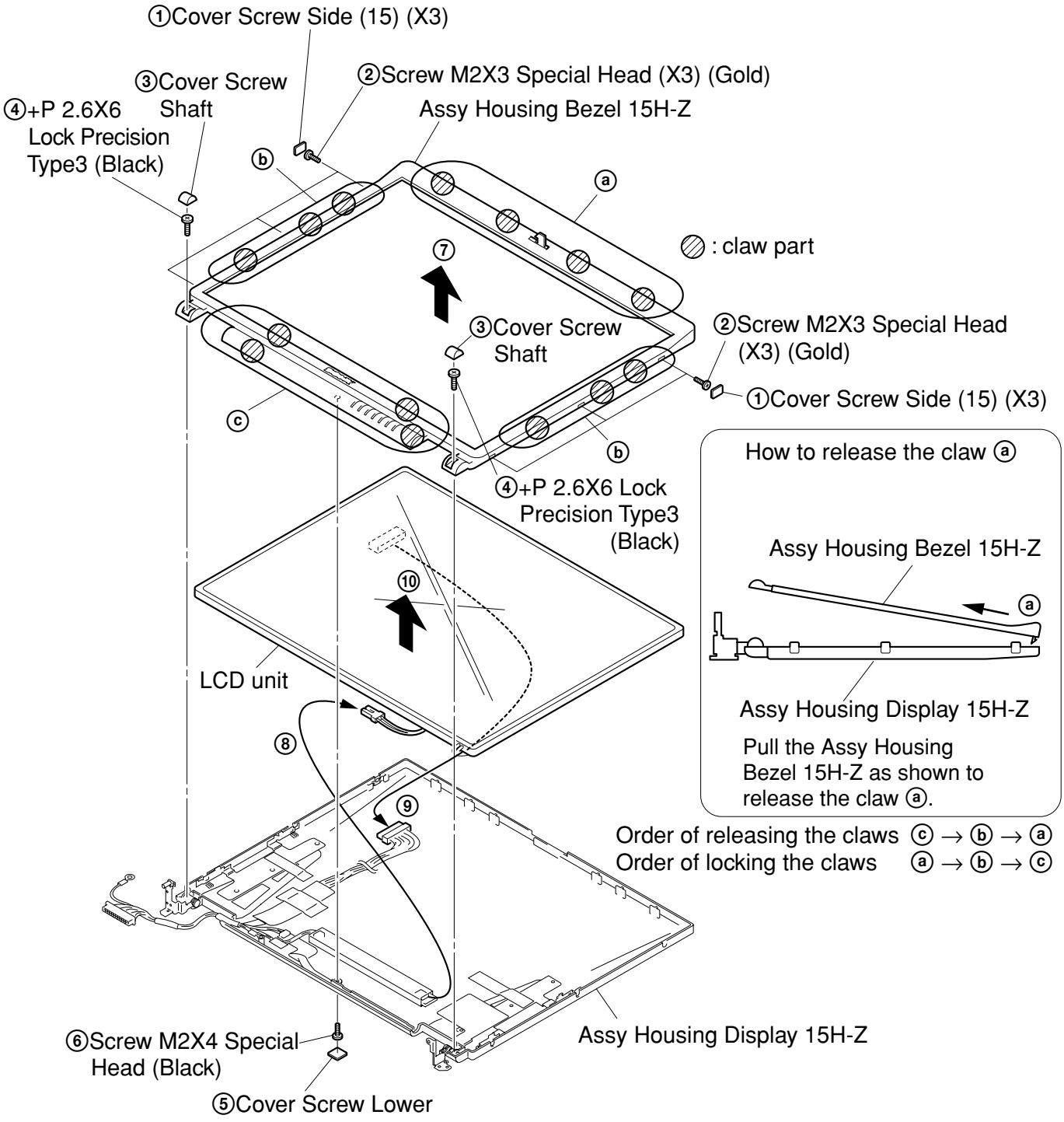


12. Card Modem (Removing from the bottom)

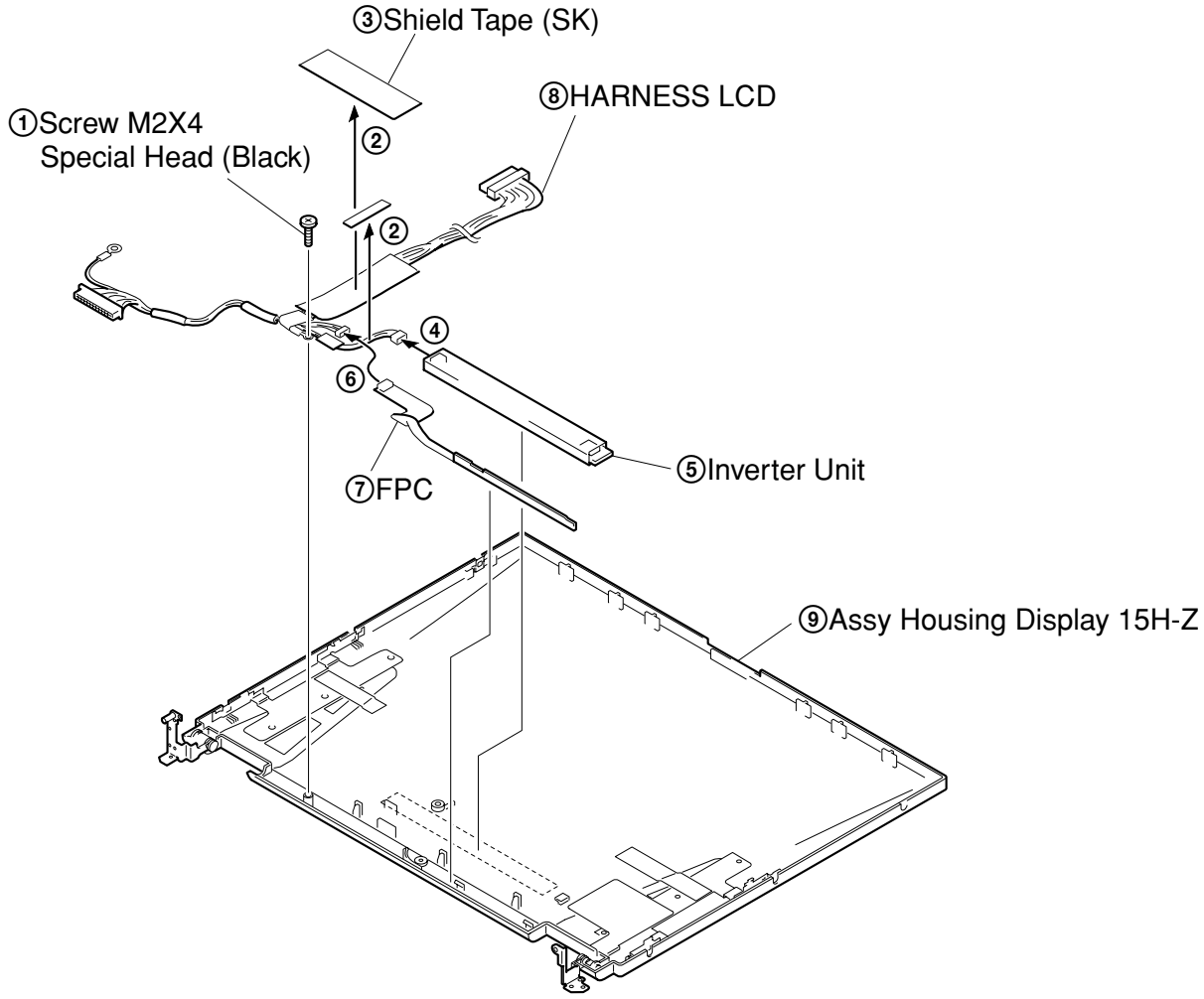


13. LCD Section – Made by HI –

1. Assy Housing Bezel, LCD unit (15 inch)

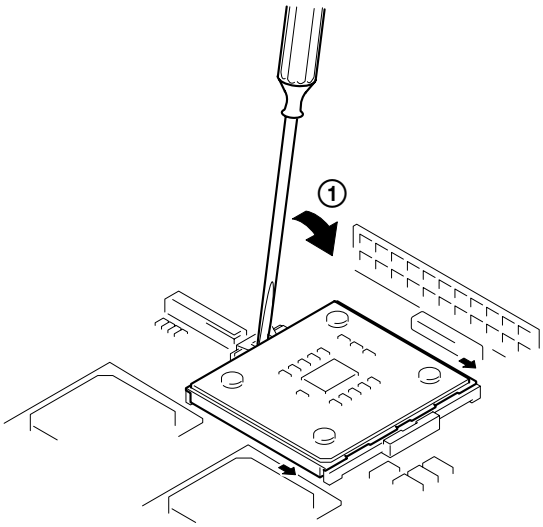

①Cover Screw Side (15) (X3)
②Screw M2X3 Special Head (X3) (Gold)
③Cover Screw Shaft
④+P 2.6X6 Lock Precision Type3 (Black)
Assy Housing Bezel 15H-Z
: claw part
⑤Cover Screw Lower
⑥Screw M2X4 Special Head (Black)
LCD unit
Assy Housing Display 15H-Z
How to release the claw ⓐ
Assy Housing Bezel 15H-Z
Assy Housing Display 15H-Z
Pull the Assy Housing Bezel 15H-Z as shown to release the claw ⓐ.
Order of releasing the claws ⓒ → ⓑ → ⓐ
Order of locking the claws ⓐ → ⓑ → ⓒ

2. Inverter Unit, Harness LCD, FPC, Assy Housing Display



1-4.Replacing the CPU

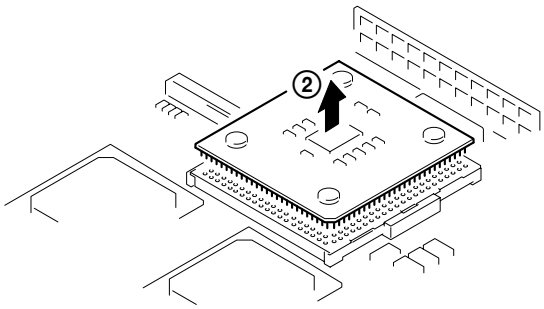
1. Removing the CPU



① Insert a screwdriver tip into the groove as shown and slant it in the direction of the arrow.

NOTE: Do not use screwdrivers having a large tip than the width of the groove.
Otherwise, it may cause the groove to be damaged.

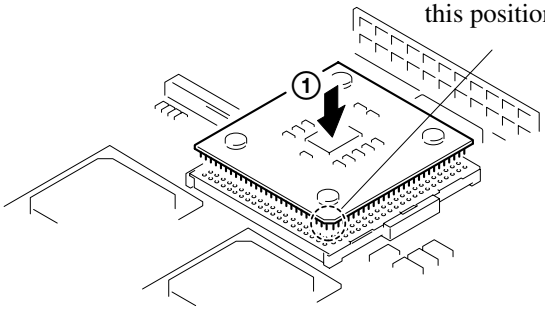
The base under the CPU moves slightly in the direction of the arrow and the lock is released.



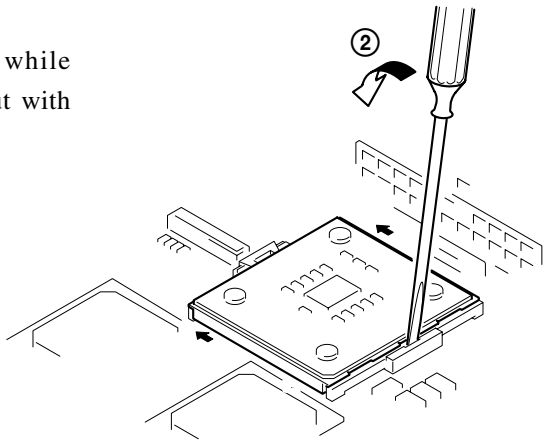
② The CPU can be removed upward.

2. Installing the CPU

Attach the CPU while aligning the cut-out with this position.



① Insert all pins of the replacement CPU into the holes of the base and push the CPU in the direction of the arrow.



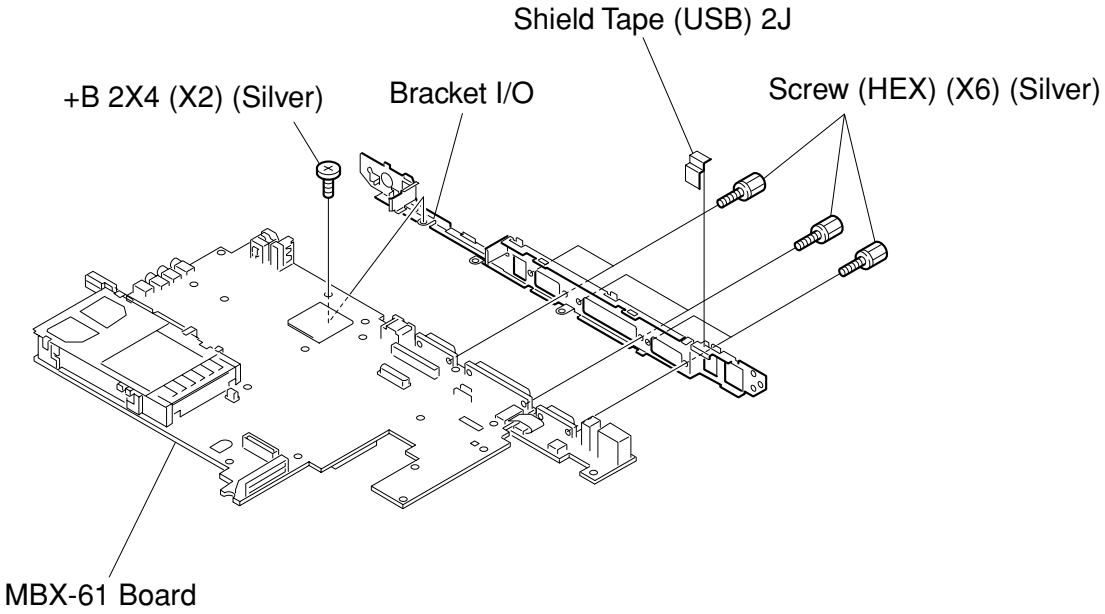
② Insert a screwdriver tip into the groove as shown and slant it in the direction of the arrow.
The base under the CPU moves slightly in the direction of the arrow and the CPU is locked.

1-5. Replacing Various Connectors on the MBX-61 Board

Replace the connectors of "5-3. Connector Section" as follows.

1. Removing the Bracket I/O

When removing the connectors of reference numbers 901, 902 and 903 (refer to page 5-7), remove the bracket I/O first.

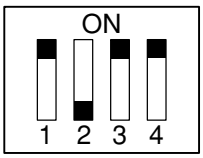


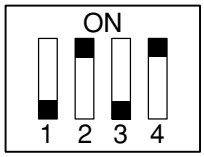
2. Removing the Various Connectors

The connectors of reference numbers 901, 902 and 903 (Refer to page 5-7, 5-8) are connected by soldering, remove the soldering first then remove the connectors.

1-6. DIP Switch Setting of the MBX-61 Board

Set the DIP switch on the MBX-61 board (main board) to match with the LCD that is used in this computer.

<table>
<tr><th>Part No. of LCD</th><th>DIP switch setting</th></tr>
<tr><td>1-476-186-12</td><td> 

The upper position where ON indication is shown is the ON position . The lower position is the OFF position.
<table>
<tr><td>No.</td><td>1</td><td>2</td><td>3</td><td>4</td></tr>
<tr><td>ON/OFF</td><td>0</td><td>1</td><td>0</td><td>0</td></tr>
</table>
0 : ON 1: OFF</td></tr>
<tr><td>A-8025-245-A</td><td> 

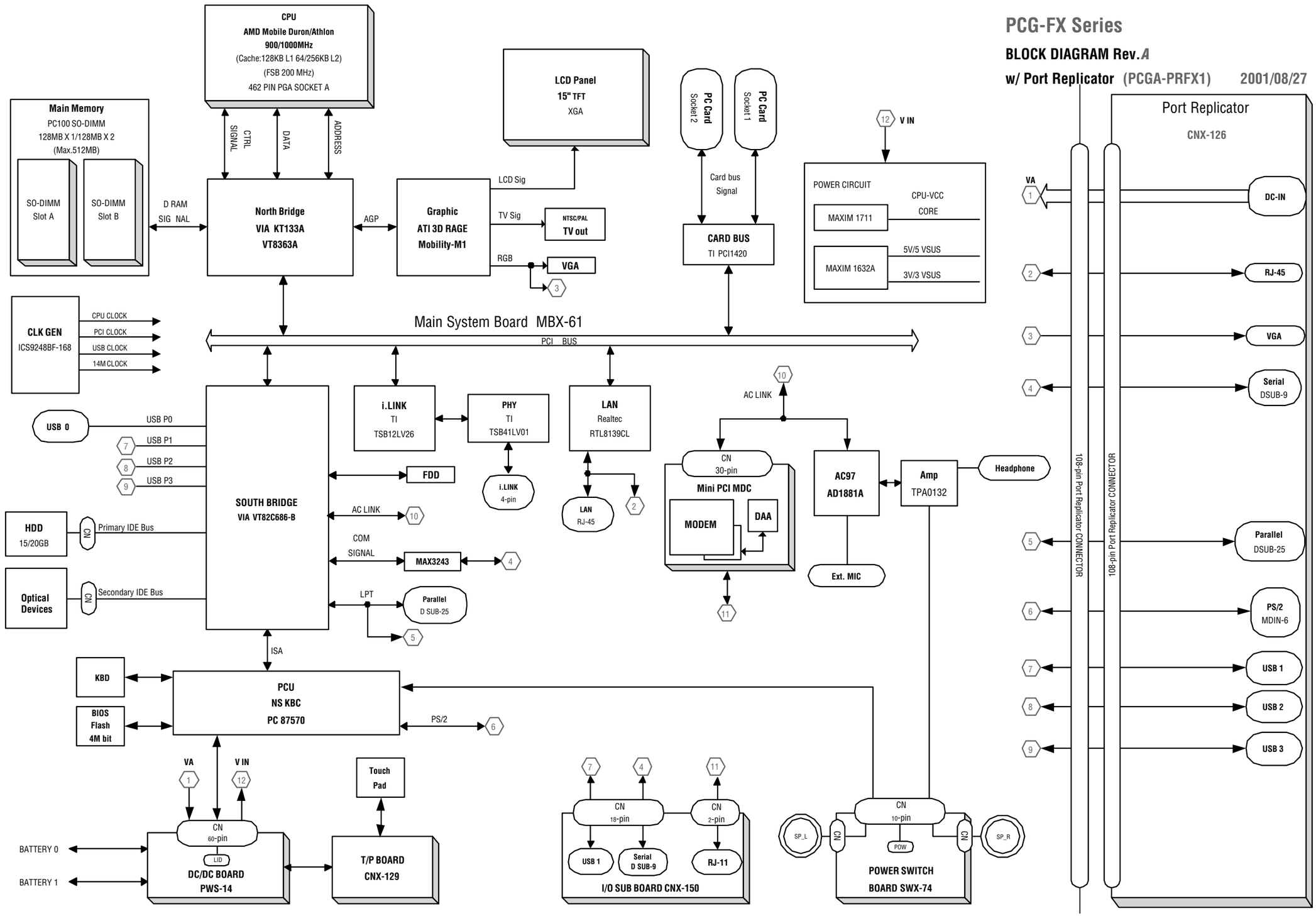
The upper position where ON indication is shown is the ON position . The lower position is the OFF position.
<table>
<tr><td>No.</td><td>1</td><td>2</td><td>3</td><td>4</td></tr>
<tr><td>ON/OFF</td><td>1</td><td>0</td><td>1</td><td>0</td></tr>
</table>
0 : ON 1: OFF</td></tr>
</table>

CHAPTER 2.
SELF DIAGNOSTICS

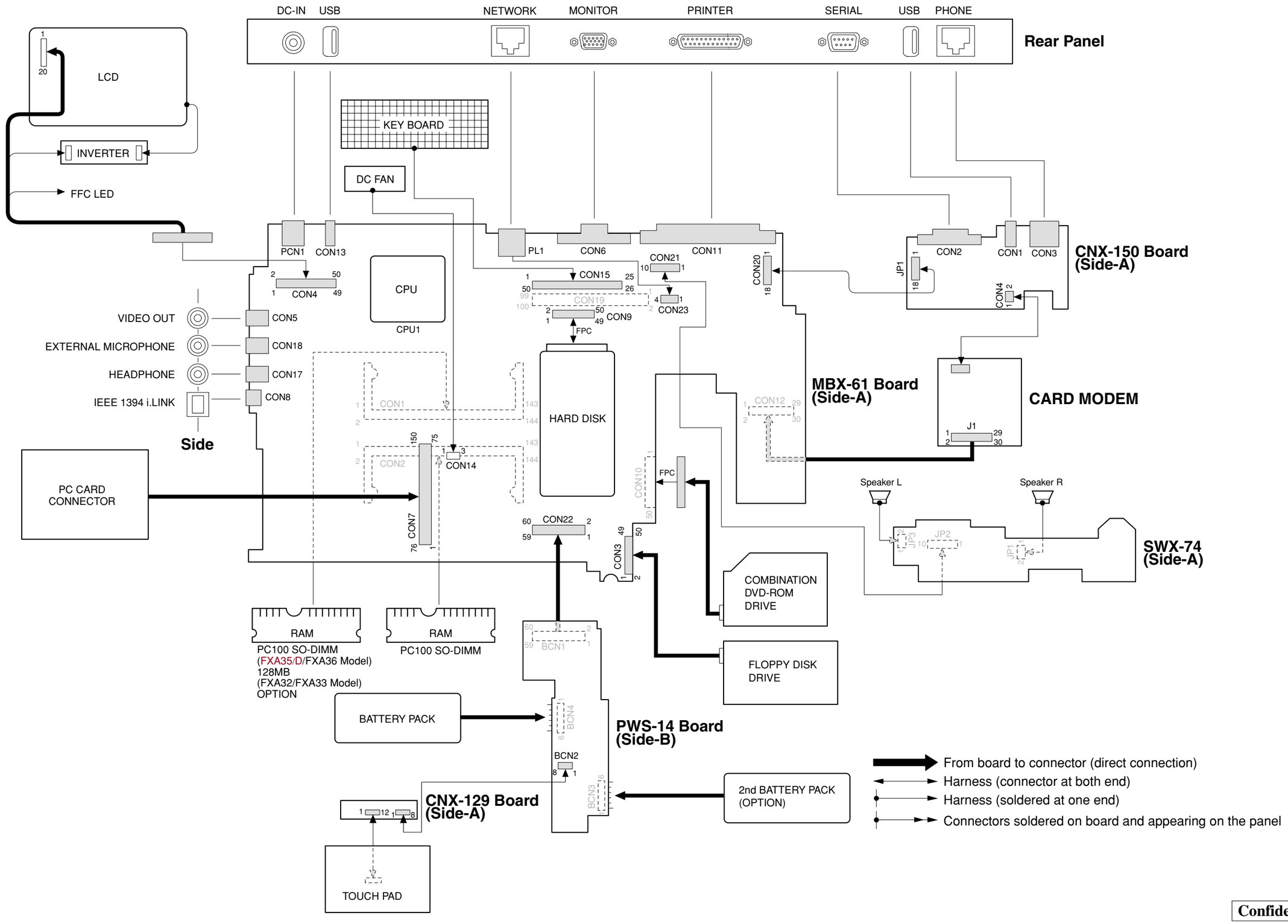
ATTENTION

Please confirm “Self Diagnostics” method which will be informed you with distribution of “Self Diagnostics” software.

CHAPTER 3.
BLOCK DIAGRAM



CHAPTER 4.
FRAME HARNESS DIAGRAM



CHAPTER 5.
EXPLODED VIEWS AND PARTS LIST

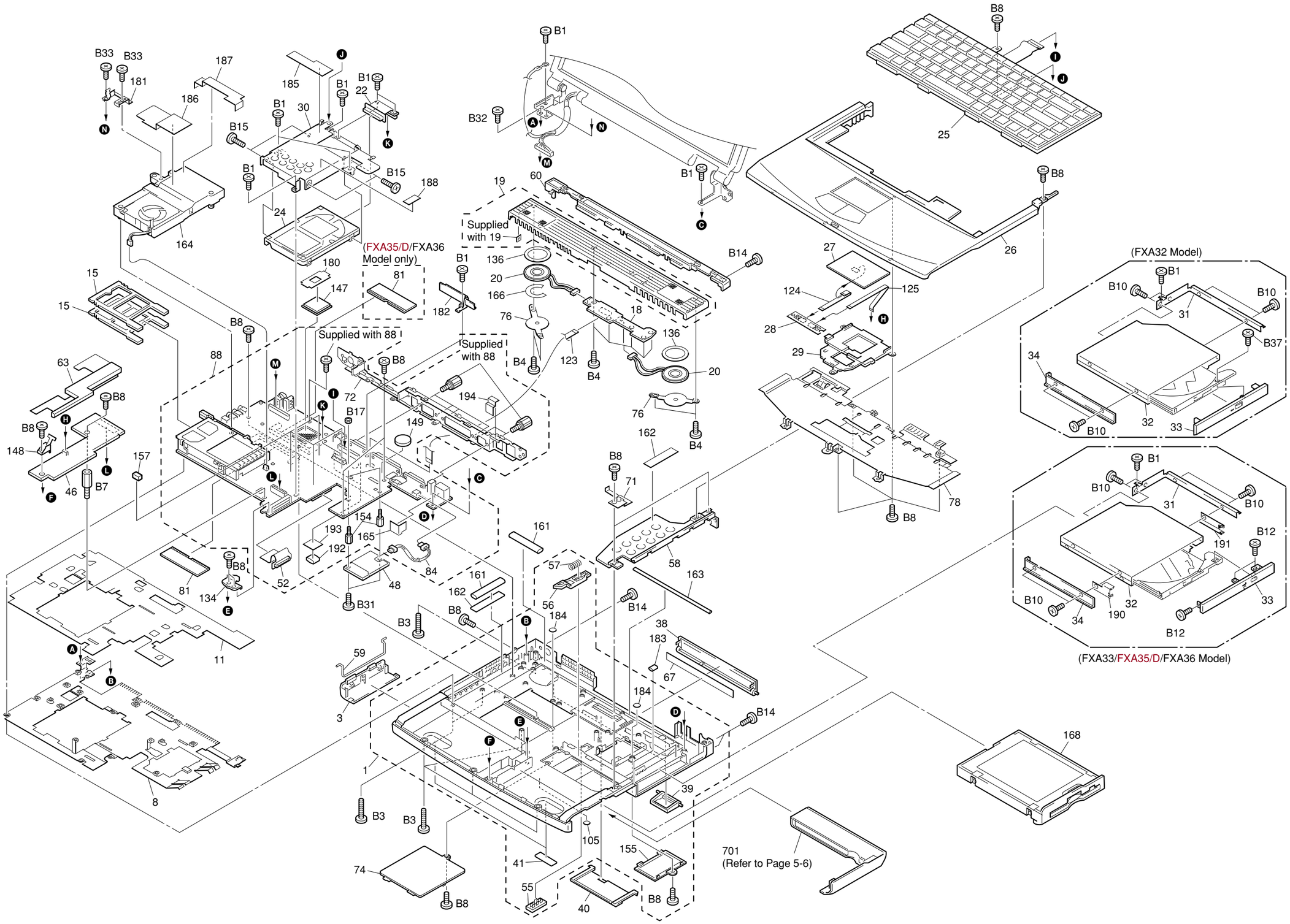
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- When two or more parts are shown in parallel, use the part described first as the main part.
- The indication [CH] is used for identification of part type.
- Regarding the boards of this model, the discrete parts on the boards cannot be replaced. However, Some connectors can be replaced.

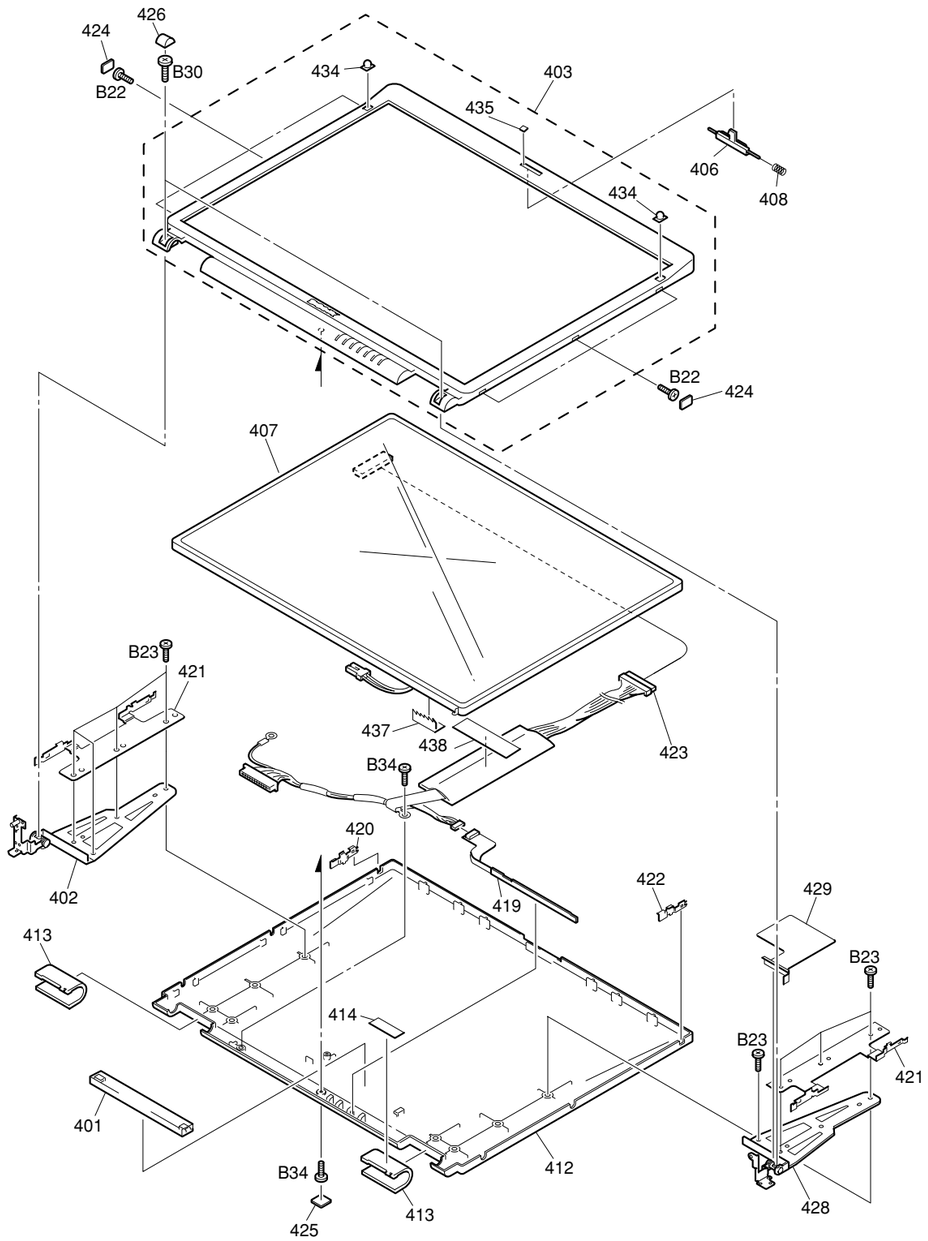
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. Main Section

Ref.No.	Part No.	Description
1	X-4623-848-1	[CH]...ASSY BOTTOM (Q)
3	4-640-837-22	DOOR BATTERY
* 8	4-651-706-01	HEATSINK BOTTOM
* 11	4-656-752-01	[CH]...INSULATOR HEATSINK BOTTOM
15	4-643-832-21	DUMMY CARD
18	A-8049-276-A	COMPLETE PWB SWX-74
19	X-4623-389-1	ASSY HOOD KEYBOARD Z (P)
20	1-529-287-11	SPEAKER UNIT
22	1-790-639-22	FPC 50PIN (FOR HDD)
24	1-796-230-11	(FXA35/D/FXA36)... HDD (DK23CA-20, 20G, BALL)
24	1-796-173-11	(FXA32/FXA33)...HDD (DK23CA-15-15G)
25	1-476-647-12	KEY BOARD UNIT (US)
26	X-4623-849-1	[CH]...ASSY PALMREST (Q)
27	1-772-529-72	PAD, TOUCH
28	A-8049-275-A	COMPLETE PWB CNX-129
* 29	4-651-699-01	BRACKET PAD
* 30	4-651-708-12	BRACKET (HDD)
31	4-640-861-04	BRACKET CD-ROM R
32	1-796-072-21	(FXA33/FXA35/D/FXA36)... COMBO DRIVE (UJDA710)
32	1-796-171-21	(FXA32)...DVD-ROM (SDR-081,8X)
33	X-4623-436-2	(FXA33/FXA35/D/FXA36)... ASSY DOOR DVD-RW (PA)
33	X-4623-747-1	(FXA32)...ASSY DOOR DVD-ROM (Q)
* 34	4-640-860-03	BRACKET (CD-ROM L)
38	4-656-727-01	[CH]...DOOR I/O
39	4-656-735-01	[CH]...FOOT REAR
40	4-651-714-01	DOOR DOCKING CONNECTOR
41	4-656-736-01	[CH]...FOOT FRONT
46	A-8049-270-A	COMPLETE PWB PWS-14
48	1-761-380-23	CARD, MODEM
52	1-790-640-11	FPC 50PIN (FOR CD-ROM)
55	4-640-845-11	BUTTON BAY
56	4-644-349-01	LATCH BAY
* 57	4-640-854-01	SPRING BAY
* 58	4-651-850-01	BRACKET BOTTOM
* 59	4-640-857-01	DOOR BATTERY SPRING
60	4-651-698-01	DISPLAY BASE
63	4-651-928-02	COVER BATTERY CONNECTOR
67	4-656-756-01	[CH]...LABEL I/O
* 71	4-641-851-02	SPRING (FDD), PLATE
72	4-657-283-01	[CH]...BRACKET IO
74	4-651-702-01	DOOR DIMM
* 76	4-644-361-01	BRACKET SPK
* 78	4-644-362-11	PLATE PALMREST
81	8-749-019-00	IC HYM71V16M655AT6-P (PC-100 SO-DIMM (128MB CL2))
84	1-960-827-21	HARNESS (2 PIN)
88	A-8025-405-A	MAIN BOARD ASSY
105	4-641-630-11	COVER BAY HOLE
123	1-790-711-21	FFC (PPK)
124	1-757-767-11	FFC (TP-CNX)
125	1-790-710-11	FFC (SWX-PWS)
* 134	4-645-433-01	BRACKET BAY CONNECTOR
136	4-644-357-01	CUSHION SPK
147	6-701-605-01	(FXA32/FXA33)... IC DHM0900AQS1B (Duron 900MHz)
147	6-701-607-01	(FXA35/D/FXA36)... IC AHM1000AVS3B (Athlon4 1.0GHz)
148	X-4623-561-2	ASSY LATCH DETECTOR
149	1-756-148-11	SECONDARY BATTERY, LITHIUM
154	4-651-989-01	SPACER (MBX)
155	4-651-701-01	DOOR MODEM
157	4-654-701-01	CUSHION (HD-M2)
161	4-654-019-01	GASKET (AV)
162	4-654-047-01	SHIELD (AV)
163	4-653-936-01	GASKET (HB/M)
164	A-8049-300-A	COOLING UNIT-2
165	4-644-667-01	COVER RJ-11
166	4-654-631-01	GUARD SPK
168	A-8025-674-A	FDD UNIT ASSY (TN-CH)
180	4-658-086-01	(FXA32/FXA33)...TAPE CPU (D7)
180	4-656-486-01	(FXA35/D/FXA36)...TAPE CPU (A6)
* 181	4-654-398-01	PLATE GROUND (SH)
* 182	4-657-164-03	BRACKET WIRE 2
183	4-655-511-01	GASCKET (DRIVE)
184	4-654-776-01	INSULATOR (SCREW)
185	4-654-783-01	SHIELD TAPE (HDD)
186	4-655-042-01	SHIELD SHEET (FAN)
187	4-658-711-01	SHIELD TAPE (FAN)2
188	4-658-542-01	SPACER (KEY BOARD)
190	4-657-629-01	(FXA33/FXA35/D/FXA36)... SPRING DRIVE (PA)
191	4-657-049-01	(FXA33/FXA35/D/FXA36)... SPRING DRIVE (PA-R)
192	4-658-470-01	[CH]...GASKET (DOCK)
193	4-659-640-01	TAPE (DOCK) J
194	4-659-641-01	SHIELD TAPE (USB) 2J
B1	4-641-726-41	SCREW (M2), SPECIAL HEAD
B3	4-644-899-01	SCREW (M2), 0 NUMBER P3 KIND
B4	4-639-112-01	SCREW M2X4
B7	4-644-402-12	SCREW (MBX)
B8	4-641-726-11	SCREW (M2), SPECIAL HEAD
B10	4-652-498-01	+B M2 (NOJI)
B12	4-645-177-01	SCREW (M1.7X3.5)
B14	4-645-497-01	SCREW (M2.6), CROSS (HOLE) BIND
B15	4-635-301-01	SCREW M3X4
B17	7-622-205-05	NUT M2 TYPE2
B31	4-645-214-11	GRIP, M2
B32	7-621-772-68	SCREW +B 2X12
B33	4-642-852-21	+B M2
B37	4-650-481-01	SCREW (B1.7), TAPPING


(FXA35/D/FXA36 Model only)
Supplied with 19
Supplied with 88
Supplied with 88
(FXA32 Model)
(FXA33/FXA35/D/FXA36 Model)
701
(Refer to Page 5-6)

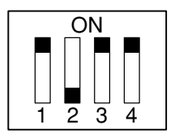
5-2. LCD Section (FXA32/FXA33/FXA36 Model)
– Made by HI –



Ref.No.	Part No.	Description
401	1-476-318-21	INVERTER UNIT
402	X-4623-380-1	HINGE LEFT 15
403	X-4623-419-2	ASSY HOU,BEZEL 15H-Z
406	4-637-902-31	LATCH
407	1-476-186-12	LCD-UNIT (HI 15 TFT XGA)
408	4-637-903-01	SPRING LATCH
412	X-4623-416-1	ASSY HOU, DISPLAY 15H-Z
413	4-642-762-31	COVER HINGE (15)
414	4-658-354-11	(FXA36)...LABEL ID (U)
414	4-658-354-21	(FXA33)...LABEL ID (U)
414	4-658-354-31	(FXA32)...LABEL ID (U)
419	1-757-604-11	PWB, FLEXIBLE PRINT (SINGLE)
* 420	4-647-506-01	BRACKET LCD (L) 15SX
* 421	4-647-508-01	BRACKET LCD (LR) SX
* 422	4-647-507-01	BRACKET LCD (R) 15SX
423	1-961-018-61	HARNESS, LCD (XGA-F-N)
424	4-646-217-11	COVER SCREW SIDE (15)
425	4-635-277-22	COVER SCREW LOWER
426	4-643-549-12	COVER SCREW SHAFT
428	X-4623-381-1	HINGE RIGHT 15
429	4-643-366-11	EDGE GUARD HINGE (15)
434	4-635-276-22	COVER SCREW UPPER
435	4-642-760-12	CUSHION CENTER
437	4-643-837-01	SHIELD (LCD)
438	4-650-831-01	SHIELD TAPE (SK)
B22	4-641-726-81	SCREW (M2), SPECIAL HEAD
B23	4-644-165-01	SCREW (M2.6X4), 0 PLATE P1 MAIN
B30	4-643-550-01	+P 2.6X6 LOCK PRECISION TYPE3
B34	4-641-726-11	SCREW (M2), SPECIAL HEAD

NOTE :

Set the DIP switch on the MBX-61 board (Main board) to match with the LCD (1-476-186-12) that is used in this computer.



The upper position where ON indication is shown is the ON position . The lower position is the OFF position.

No.	1	2	3	4
ON/OFF	0	1	0	0

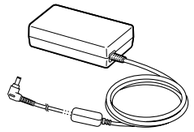
0 : ON 1: OFF

Ref.No.	Part No.	Description
		ACCESSORIES
		**********
701	A-8048-965-A	ASSY WEIGHT SAVER (Z) (Refer to Page 5-4.)
⚠702	1-476-342-22	ADAPTOR, AC
703	1-756-167-12	BATTERY PACK, LITHIUM ION
704	1-575-875-51	CORD, CONNECTION
⚠	1-757-562-21	CORD, POWER
	4-658-809-11	QUICK START, TAURUS

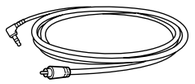
701
Weight saver (1)

703
Battery pack (1)

702
AC adaptor (1)

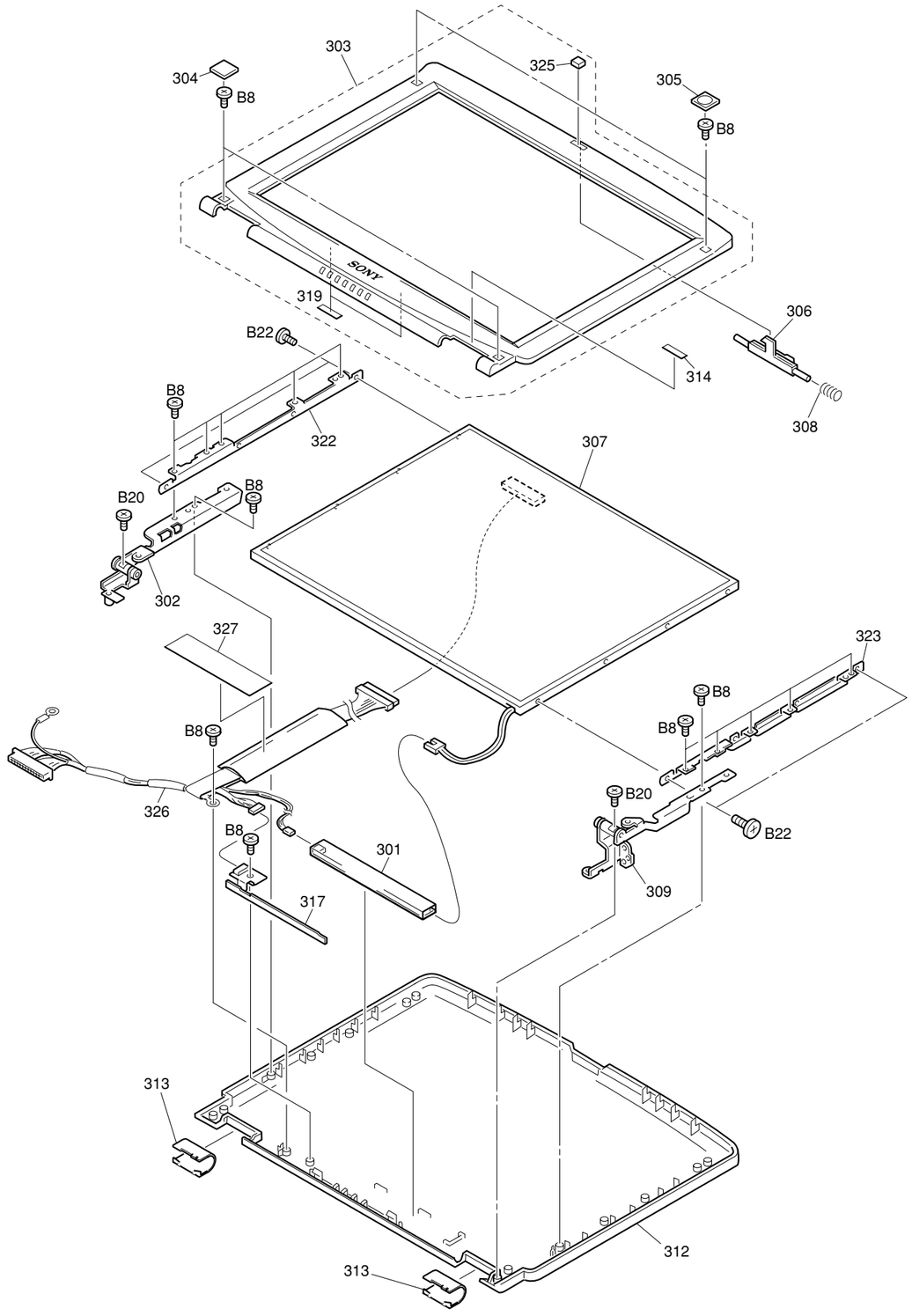


704
Video cable (1)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

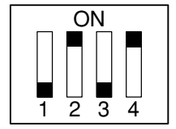
5-2-A. LCD Section (FXA35/D Model) – Made by HI –



Ref.No.	Part No.	Description
301	1-476-318-21	INVERTER UNIT
302	X-4623-378-1	HINGE LEFT MV
303	X-4623-409-3	ASSY HOU, BEZEL 14SA-Z
304	4-635-277-22	COVER SCREW LOWER
305	4-635-276-22	COVER SCREW UPPER
306	4-637-902-31	LATCH
307	A-8025-245-A	ASSY LCD 14XGA (HT) (S)
308	4-637-903-01	SPRING LATCH
309	X-4623-379-1	HINGE RIGHT MV
312	X-4623-458-1	ASSY HOU, DISPLAY 14FV-Z
313	4-642-762-31	COVER HINGE (15)
314	4-658-354-41	LABEL ID (U)
317	1-757-605-11	PWB, FLEXIBLE PRINT (SINGLE)
319	4-654-966-01	SHEET (BEZEL), ADHESIVE
* 322	4-644-163-11	BRACKET LCD LEFT 14 (SA)
* 323	4-644-164-11	BRACKET LCD RIGHT 14 (SA)
325	4-642-760-12	CUSHION CENTER
326	1-961-018-81	HARNESS, LCD (XGA-F-N)
327	4-650-831-01	SHIELD TAPE (SK)
B8	4-641-726-11	SCREW (M2), SPECIAL HEAD
B20	7-628-254-00	SCREW +PS 2.6X5
B22	4-658-316-01	ACE (M2), +B LOCK

NOTE :

Set the DIP switch on the MBX-61 board (Main board) to match with the LCD (A-8025-245-A) that is used in this computer.

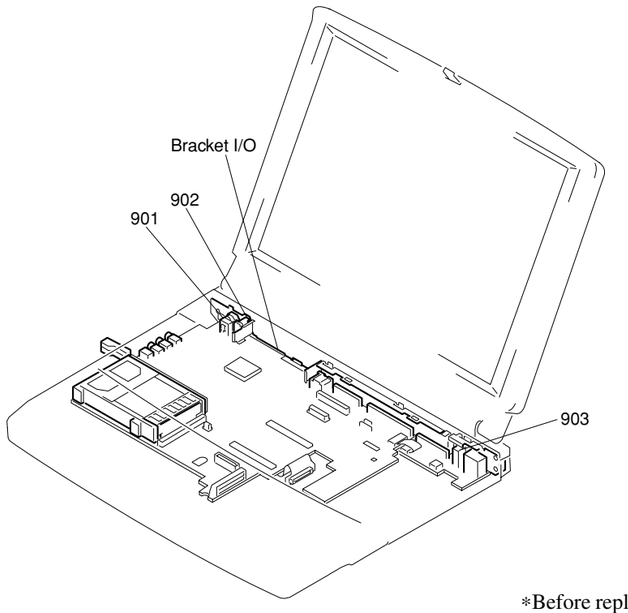


The upper position where ON indication is shown is the ON position . The lower position is the OFF position.

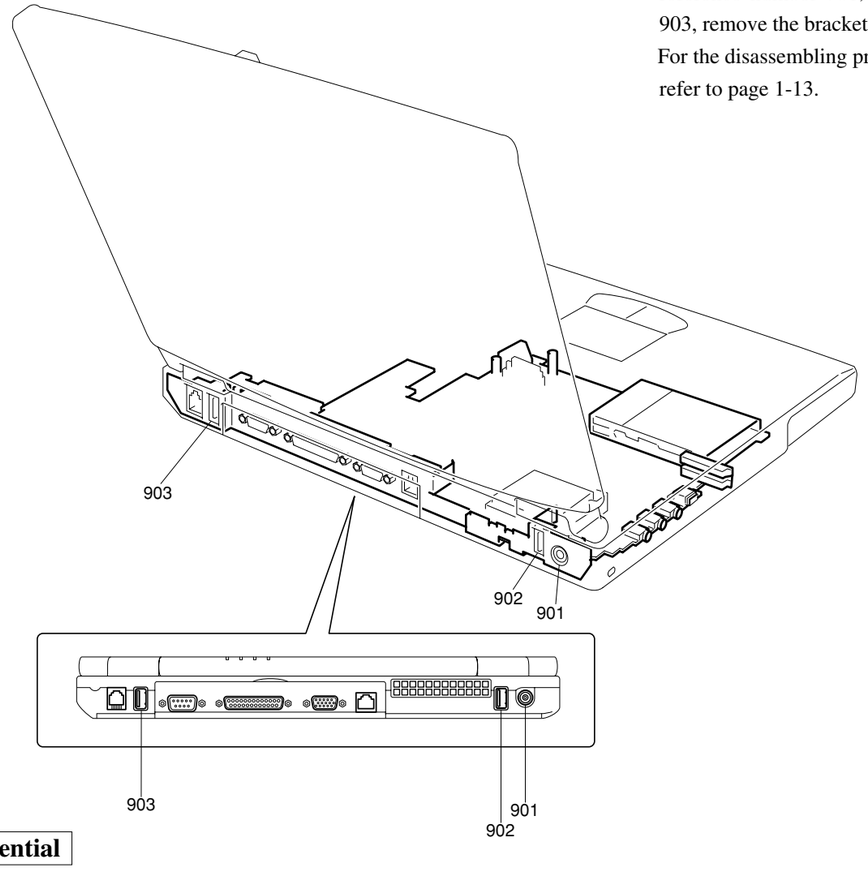
No.	1	2	3	4
ON/OFF	1	0	1	0

0 : ON 1: OFF

5-3. Connector Section



*Before replacing the connector of reference number 901, 902 and 903, remove the bracket I/O. For the disassembling procedure, refer to page 1-13.



Ref.No.	Fig.	Part No.	Description
901		1-779-745-21	JACK, DC DC IN connector
902		9-885-018-97	CONNECTOR (1.2MM), USB USB connector
903		9-885-018-98	CONNECTOR (1.6MM), USB USB connector

* Among the parts that are used on the boards of this model, only the connectors that are show in the list can be replaced.
(The parts other that the specified connectors cannot be replaced.)

List of PCG-FX Series (As of December, 2001)

Model Name	Service Manual Part No.
PCG-FX190 PCG-FX170 PCG-FX150 PCG-FX140 PCG-FX120	9-872-179-11
PCG-FX190K PCG-FX170K PCG-FX150K PCG-FX140K PCG-FX120K	9-872-194-11
PCG-FX290K PCG-FX290	9-874-409-11
PCG-FX270K PCG-FX270 PCG-FX250K PCG-FX250 PCG-FX240K PCG-FX240 PCG-FX220K PCG-FX220	9-874-427-11
PCG-FX210	9-874-404-11
PCG-FX215	9-874-432-11
PCG-FX340 PCG-FX370 PCG-FX390	9-874-495-01
PCG-FXA32 PCG-FXA33 PCG-FXA36 PCG-FXA35/D	9-874-453-02 ☜

☜ : Additional Models

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English
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Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver. 1	2001.10.03	First Edition	
-02	Ver.2	2002.01.07	**Front Page (Model Line Up), Page 1-3, Page 1-14, Page 4-1, Page 5-2, Page 5-3 Page 5-4, Page 5-6(a), Page 5-6(b), Back Cover**	M2002_001K
	< Remarks >			
	2001.12.08		Change of Service Manual P/N [9-872-253-01 ⇨ 9-874-453-01]	